

TITLE

SINAPOYLGLUCOSE:MALATE SINAPOYLTRANSFERASE FORM
MALATE CONJUGATES FROM BENZOIC ACID GLUCOSIDES

ABSTRACT OF THE DISCLOSURE

A gene has been isolated from *Arabidopsis* encoding sinapoylglucose:malate sinapoyltransferase (SMT). SMT is responsible for the substitution of a glucose moiety on aromatic acid glucosides with a malate moiety in plant vacuoles. The enzyme is useful for the production of small molecules for materials manufacture.